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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/888,955	06/25/2001	Calvin White	40101/02201 1402	
30636 75	90 05/14/2004		EXAMINER	
FAY KAPLUN & MARCIN, LLP			KENDALL, CHUCK O	
150 BROADW NEW YORK, 1	'AY, SUITE 702 NY 10038		ART UNIT PAPER NUMBI	
,			2122	5
			DATE MAILED: 05/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
		09/888,955	WHITE, CALVIN				
	Office Action Summary	Examiner	Art Unit				
		Chuck Kendall	2122				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address				
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be oly within the statutory minimum of thirty (30) do will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication IED (35 U.S.C. § 133).	on.			
Status							
1) 🏹	Responsive to communication(s) filed on 27 F	February 2004.					
•	·	s action is non-final.					
· · · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-28 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-28 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	awn from consideration.					
Applicat	ion Papers						
9)[The specification is objected to by the Examin	er.					
10)[The drawing(s) filed on is/are: a) acc						
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).				
11)[Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	•		(d).			
Priority (under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureasee the attached detailed Office action for a list	nts have been received. Its have been received in Applica prity documents have been recei au (PCT Rule 17.2(a)).	ation No ved in this National Stage				
Attachmer	nt(s)						
	ce of References Cited (PTO-892)	4) Interview Summa					
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date I Patent Application (PTO-152)				

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DETAILED ACTION

1. This action is in response to the application filed 02/27/04.

2. Claims 1-28 have been examined.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-28 are rejected under 35 U.S.C. 103(3) as being unpatentable over Fresko et al. USPN 5,966,702 (hereinafter Fresko), in view of Merrick et al. USPN 6,339,841 B1 (hereinafter Merrick).

Regarding claims 1 and 12, Fresko discloses a system, comprising: a receiving module to receive a request to load a component (Col. 7 line 1 - line 10); a stack to record the request (10:61-64), a loader to fulfill the request (9:29), when the loading of the component is unsuccessful, contents of the stack are made available to a user to indicate the unsuccessfully loaded component (10:61-64, see partial results). Fresko doesn't explicitly disclose wherein when the request has been fulfilled the request is removed from the stack. However, Merrick does disclose this feature in a similar configuration (3:5-8). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Fresko and Merrick because, using stacks in a Java environment is a general practice in the art and makes monitoring and managing objects within memory more efficient

Regarding claims 2 and 14, the system according to claim 1, further comprising:

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an execution module to execute instructions contained in a component object, wherein the component object is created from information in the component (Fresko, 7:10).

Regarding claim 3, the system according to claim 1, wherein the receiving module, the stack and the loader reside on a development platform (Fresko, 7:1-15, see item# 200).

Regarding claim 4, the system according to claim 1, wherein the receiving module, the stack and the loader reside on an embedded device (Fresko, 7:1-15, see item# 200).

Regarding claim 5, the system according to claim 4, wherein the component resides external to the embedded device (fig 2, see 222, 223).

Regarding claim 6, the system according to claim 1, wherein the loader includes a plurality of loading modules in a hierarchical relationship and the component is loaded by a highest level loading module capable of loading the component (Fresko,47:40-50 for hierarchy see subclasses of ClassLoader).

Regarding claim 7, the system according to claim 1, wherein the stack contents are made available to the user via one of an on-screen display, a printout and a file (38:45-50).

Regarding claims 8 & 17, Fresko discloses a method of loading, comprising the steps of: receiving a request to load a first software module (Col. 7 line 1 - line 10); placing a representation of the first software module onto a stack (10:60-65, and 39:15); determining if the first software module is dependent on a second software module (Fresko, 10:35-39, see Multi class sets and required classes, [the secondary art also shows this limitation which is pretty common in the art during class packaing and loading, see Merrick, 1:55-60]); placing, when the first software module is dependent on the second software module, a representation of the second software module onto the stack (10:60-65); loading the second software module (Fresko, 10:35-39, see Multi

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class sets for second program), and loading the first software module (See definition for Multi class set, which by default loads atleast one class). Fresko doesn't explicitly disclose removing the representation of the first and second software module from the stack when the second software module has been successfully loaded. However, Merrick does disclose this feature in a similar configuration (3:5-8). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Fresko and Merrick because, using stacks in a Java environment is a general practice in the art and makes monitoring and managing objects within memory more efficient.

Regarding claims 9 & 18, the method according to claim 8, further comprising the step of: making contents of the stack available to a user when the loading of one of the first software module and the second software module has been unsuccessful (Merrick,3:5-8).

Regarding claim 10, Examiner is applying the same rationale to claim, which is the method version (for method see, Fresko, 51:1-40) of the system claim as discussed in claim 7 above.

Regarding claim 11, the method according to claim 8, wherein the representation of the first software module is the name of the first software module (8:13, see class names).

Regarding claim 13, the system according to claim 12, wherein contents of the stack are made available to a user when fulfillment of the load request has been unsuccessful (Merrick, 3:5-8).

Regarding claim 15, the system according to claim 12, wherein, when the software component in the load request is dependent on an additional software component, an additional load request for the additional software component is received (Fresko, 10:35-39, see Multi class sets and required classes, [the secondary art also shows this limitation which is pretty common in the art during class packaing and loading, see Merrick, 1:55-60]) by the loader and the loader pushes a representation of

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the additional software component onto the stack when the additional load request is received and pops the representation of the additional software component off of the stack when the additional load request has been successfully fulfilled (Merrick, 3:5-8, Examiner deems this to be inactive when it has been fulfilled).

Regarding claim 16, the system according to claim 15, wherein contents of the stack are made available to a user when fulfillment of the additional load request has been unsuccessful and the contents of the stack include the representation of the software component and the additional software component (Merrick, 3:5-8).

Regarding claim 19, Examiner is applying the same rationale to claim, which is the method version (for method see, Fresko, 51:1-40) of the system claim as discussed in claim 7 above.

Regarding claim 20, the method according to claim 17, wherein the loading steps, the placing steps and the removing steps are performed by a Java class loader (Fresko, 44:4).

Regarding claim 21, the method according to claim 17, further comprising the steps of:

creating a first Java class object from the loaded first Java class (Fresko, 40:34); and executing instructions included in the first Java class object (Fresko, 44:10-12).

Regarding claim 22, the method according to claim 21, wherein the executing step is performed by a Java Virtual Machine (Fresko, 44:10-12).

Regarding claim 23, Fresko discloses a system, comprising: a stack to record a load request for a Java class (Col. 10, lines 61-64); a Java class loader to receive and fulfill the load request for the Java class (Col. 7 line 1 - line 10), a Java Virtual Machine to execute instructions contained in a Java class object, wherein the Java class object is created from information in the Java class (44:10-12). Fresko doesn't explicitly disclose

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wherein when the request has been fulfilled the request is removed from the stack. However, Merrick does disclose this feature in a similar configuration (3:5-8). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Fresko and Merrick because, using stacks in a Java environment is a general practice in the art and makes monitoring and managing objects within memory more efficient.

Regarding claim 24, the system according to claim 23, wherein the Java class loader is one of a custom class loader and a default loader (Fresko, 9:28).

Regarding claim 25, the system according to claim 23, wherein contents of the stack are made available to a user when fulfillment of the load request has been unsuccessful (Merrick, 3:5-8).

Regarding claim 26, the system according to claim 23, wherein the stack, the Java class loader and the Java Virtual Machine reside on a development platform (fig 1, 100,102).

Regarding claim 27, the system according to claim 1, wherein the stack, the Java class loader and the Java Virtual Machine reside on an embedded device (fig 1, 102).

Regarding claim 28, the system according to claim 23, wherein the load request is received via a uniform resource locator (Fresko, 3:47-53).

Response to Arguments

5. Applicant's arguments filed 02/27/2004 have been fully considered but they are not persuasive to over come the previous rejection. See arguments below for reasoning.

Argument (1), Applicant argues in claims 1, 8, 12, 17 & 23 that Fresko doesn't disclose "a stack to record the request".

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Response (1), As set forth above in claims and previously in rejection dated 11/5/2003, Fresko does in fact teach this limitation. As seen in 7: 10 – 15, "The received code may be executed by CPU 213 as it is received, and or/stored in mass storage 212, or other non volatile storage...", also see stack which stores variable and partial results as noted in 10:61 – 64. A stack is generally known to store variables as well as status and function call addresses. Also Java being the preferred program used in the prior art (7: 30) is a stack oriented program, as known in the art and as such Examiner interprets the Fresko's limitation of storing to memory also encompass a stack, which is also a well known memory structure. Also Applicant argues that the stack as disclosed is used during runtime. Applicant is arguing for an unclaimed merit of distinction, therefore Applicants argument is moot. Applicant's claims don't specify whether or not storing the request is being performed at runtime.

Argument (2), Applicant argues that Merrick doesn't disclose that "when the method is loaded that the reference to the method is removed from the method table".

Response (2), Examiner believes that Merrick does disclose this function.

Merrick in 3: 5 – 9, states, "One extreme way to discard unused components would be to discard all the components not active on the Java stack. ". Here Examiner interprets when the method is loaded to be equivalent to the inactive component in Merrick which is discarded (removed).

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Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence Information

7. Any inquires concerning this communication or earlier communications from the examiner should be directed to Chuck O. Kendall who may be reached via telephone at (703) 308-6608. The examiner can normally be reached Monday through Friday between 8:00 A.M. and 5:00 P.M. est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Dam can be reached at (703) 305-4552.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

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draft.

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Software Engineer Patent Examiner

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